General information

Wellbore name	35/6-2 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	35/6-2
Seismic location	ST98M08-inline2286 & xline 3024
Production licence	376
Drilling operator	StatoilHydro Petroleum AS
Drill permit	1234-L
Drilling facility	OCEAN VANGUARD
Drilling days	51
Entered date	11.02.2009
Completed date	04.04.2009
Release date	06.01.2010
Publication date	23.12.2010
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	22.0
Water depth [m]	344.0
Total depth (MD) [m RKB]	3700.0
Final vertical depth (TVD) [m RKB]	3583.2
Maximum inclination [°]	33.6
Bottom hole temperature [°C]	121
Oldest penetrated age	EARLY CRETACEOUS
Oldest penetrated formation	NO FORMAL NAME
Geodetic datum	ED50
NS degrees	61° 32' 0.98'' N
EW degrees	3° 54' 40.72'' E
NS UTM [m]	6822726.85
EW UTM [m]	548461.38
UTM zone	31
NPDID wellbore	6063

Wellbore history

General

Well 35/6-2 S was drilled on the Måløy Slope in the Northern North Sea, in the block just north of the Gjøa field and the 35/9-3 Discovery. The main objectives were to prove hydrocarbons in the Early Cretaceous Grosso prospect and the Late Cretaceous Silius prospect. It is a replacement well for well 35/6-1 S, which was abandoned due to a shallow water flow.

Operations and results

A 12 1/4" pilot well (35/6-U-1) was spudded with the semi-submersible installation Ocean Vanguard 10 February 2009 and drilled to 585 m, the expected TD of 20" casing in the new well 35/6-2 S, in order to check for high pressure shallow water. The pilot well was flow checked and no flow was seen. Wildcat well 35/6-2 S was spudded on 4 February 2009 and drilled to TD at 3700 m (3583 m TVD) in Hauterivian aged sandstones within the Cromer Knoll Group where drilling was terminated due to hole problems. The well path was vertical down to ca 1830 m. From there the deviation angle increased up to maximum 33.6 deg at 2800 m and dropped of to ca 9 deg at TD. The well was drilled with seawater and hi-vis pills down to 585 m, with Performadril water based mud with 2.5 - 5% glycol from 585 m to 1662 m, and with Spec 12c yellow oil based mud from 1662 m to TD.

The well penetrated rocks of Quaternary, Tertiary and Cretaceous age. The well encountered the Silius reservoir at 2195 m (2190.2 m TVD) and the extensive Grosso sandstones (Agat Formation) at 3015 m (2931 m TVD). Both reservoirs were water wet. A third sand-prone interval from 3500 m to 3700 m (TD) was penetrated. This interval was dated as earliest Late Hauterivian to Early Hauterivian and is therefore of age-equivalence to the Ran Sandstone Units of the Åsgard Formation. No shows were recorded in the well.

No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 4 April 2009 as a dry well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
588.00	3690.00

Cuttings available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
590.0	[m]	DC	MILLENNI
600.0	[m]	DC	MILLEN
610.0	[m]	DC	MILLEN
620.0	[m]	DC	MILLEN
630.0	[m]	DC	MILLEN
640.0	[m]	DC	MILLEN
650.0	[m]	DC	MILLEN
660.0	[m]	DC	MILLEN
670.0	[m]	DC	MILLEN
680.0	[m]	DC	MILLEN
690.0	[m]	DC	MILLEN
700.0	[m]	DC	MILLEN
710.0	[m]	DC	MILLEN
720.0	[m]	DC	MILLEN
730.0	[m]	DC	MILLEN
740.0	[m]	DC	MILLEN
750.0	[m]	DC	MILLEN
760.0	[m]	DC	MILLEN
770.0	[m]	DC	MILLEN
780.0	[m]	DC	MILLEN
790.0	[m]	DC	MILLEN
800.0	[m]	DC	MILLEN
810.0	[m]	DC	MILLEN
820.0	[m]	DC	MILLEN
830.0	[m]	DC	MILLEN
840.0	[m]	DC	MILLEN
850.0	[m]	DC	MILLEN
860.0	[m]	DC	MILLEN
870.0	[m]	DC	MILLEN
880.0	[m]	DC	MILLEN
890.0	[m]	DC	MILLEN
900.0	[m]	DC	MILLEN
910.0	[m]	DC	MILLEN
920.0	[m]	DC	MILLEN
930.0	[m]	DC	MILLEN
940.0	[m]	DC	MILLEN
950.0	[m]	DC	MILLEN
960.0	[m]	DC	MILLEN
970.0	[m]	DC	MILLEN

980.0	[m]	DC	MILLEN
990.0	[m]	DC	MILLEN
1000.0	[m]	DC	MILLEN
1010.0	[m]	DC	MILLEN
1020.0	[m]	DC	MILLEN
1030.0	[m]	DC	MILLEN
1040.0	[m]	DC	MILLEN
1050.0	[m]	DC	MILLEN
1060.0	[m]	DC	MILLEN
1070.0	[m]	DC	MILLEN
1080.0	[m]	DC	MILLEN
1090.0	[m]	DC	MILLEN
1100.0	[m]	DC	MILLEN
1110.0	[m]	DC	MILLEN
1120.0	[m]	DC	MILLEN
1130.0	[m]	DC	MILLEN
1140.0	[m]	DC	MILLEN
1150.0	[m]	DC	MILLEN
1160.0	[m]	DC	MILLEN
1170.0	[m]	DC	MILLEN
1180.0	[m]	DC	MILLEN
1190.0	[m]	DC	MILLEN
1200.0	[m]	DC	MILLEN
1210.0	[m]	DC	MILLEN
1220.0	[m]	DC	MILLEN
1230.0	[m]	DC	MILLEN
1240.0	[m]	DC	MILLEN
1250.0	[m]	DC	MILLEN
1260.0	[m]	DC	MILLEN
1270.0	[m]	DC	MILLEN
1280.0	[m]	DC	MILLEN
1290.0	[m]	DC	MILLEN
1300.0	[m]	DC	MILLEN
1310.0	[m]	DC	MILLEN
1320.0	[m]	DC	MILLEN
1330.0	[m]	DC	MILLEN
1340.0	[m]	DC	MILLEN
1350.0	[m]	DC	MILLEN
1360.0	[m]	DC	MILLEN
1370.0	[m]	DC	MILLEN

1380.0	[m]	DC	MILLEN
1390.0	[m]	DC	MILLEN
1400.0	[m]	DC	MILLEN
1410.0	[m]	DC	MILLEN
1420.0	[m]	DC	MILLEN
1430.0	[m]	DC	MILLEN
1440.0	[m]	DC	MILLEN
1450.0	[m]	DC	MILLEN
1460.0	[m]	DC	MILLEN
1470.0	[m]	DC	MILLEN
1480.0	[m]	DC	MILLEN
1490.0	[m]	DC	MILLEN
1500.0	[m]	DC	MILLEN
1510.0	[m]	DC	MILLEN
1520.0	[m]	DC	MILLEN
1530.0	[m]	DC	MILLEN
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1550.0	[m]	DC	MILLEN
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1570.0	[m]	DC	MILLEN
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1590.0	[m]	DC	MILLEN
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1620.0	[m]	DC	MILLEN
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1692.0	[m]	DC	MILLEN
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1710.0	[m]	DC	MILLEN
1719.0	[m]	DC	MILLEN
1728.0	[m]	DC	MILLEN
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1854.0	[m]	DC	MILLEN
1863.0	[m]	DC	MILLEN
1872.0	[m]	DC	MILLEN
1881.0	[m]	DC	MILLEN
1890.0	[m]	DC	MILLEN
1899.0	[m]	DC	MILLEN
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1917.0	[m]	DC	MILLEN
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2001.0	[m]	DC	MILLEN
2010.0	[m]	DC	MILLEN
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2094.0	[m]	DC	MILLEN
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2112.0	[m]	DC	MILLEN
2121.0	[m]	DC	MILLEN
2130.0	[m]	DC	MILLEN
2139.0	[m]	DC	MILLEN
2148.0	[m]	DC	MILLEN

2156.0	[m]	DC	MILLEN
2168.0	[m]	DC	MILLEN
2178.0	[m]	DC	MILLEN
2187.0	[m]	DC	MILLEN
2199.0	[m]	DC	MILLEN
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2247.0	[m]	DC	MILLEN
2256.0	[m]	DC	MILLEN
2265.0	[m]	DC	MILLEN
2274.0	[m]	DC	MILLEN
2283.0	[m]	DC	MILLEN
2292.0	[m]	DC	MILLEN
2301.0	[m]	DC	MILLEN
2310.0	[m]	DC	MILLEN
2319.0	[m]	DC	MILLEN
2328.0	[m]	DC	MILLEN
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2346.0	[m]	DC	MILLEN
2355.0	[m]	DC	MILLEN
2364.0	[m]	DC	MILLEN
2373.0	[m]	DC	MILLEN
2382.0	[m]	DC	MILLEN
2391.0	[m]	DC	MILLEN
2400.0	[m]	DC	MILLEN
2409.0	[m]	DC	MILLEN
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2457.0	[m]	DC	MILLEN
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2607.0	[m]	DC	MILLEN
2616.0	[m]	DC	MILLEN
2625.0	[m]	DC	MILLEN
2646.0	[m]	DC	MILLEN
2655.0	[m]	DC	MILLEN
2664.0	[m]	DC	MILLEN
2673.0	[m]	DC	MILLEN
2682.0	[m]	DC	MILLEN
2691.0	[m]	DC	MILLEN
2700.0	[m]	DC	MILLEN
2709.0	[m]	DC	MILLEN
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2745.0	[m]	DC	MILLEN
2754.0	[m]	DC	MILLEN
2763.0	[m]	DC	MILLEN
2772.0	[m]	DC	MILLEN
2781.0	[m]	DC	MILLEN
2790.0	[m]	DC	MILLEN
2799.0	[m]	DC	MILLEN
2808.0	[m]	DC	MILLEN
2817.0	[m]	DC	MILLEN
2826.0	[m]	DC	MILLEN
2835.0	[m]	DC	MILLEN
2853.0	[m]	DC	MILLEN
2862.0	[m]	DC	MILLEN
2871.0	[m]	DC	MILLEN
2880.0	[m]	DC	MILLEN
2889.0	[m]	DC	MILLEN
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2934.0	[m]	DC	MILLEN
2943.0	[m]	DC	MILLEN
2952.0	[m]	DC	MILLEN
2961.0	[m]	DC	MILLEN
2970.0	[m]	DC	MILLEN
2979.0	[m]	DC	MILLEN
2988.0	[m]	DC	MILLEN
2997.0	[m]	DC	MILLEN
3006.0	[m]	DC	MILLEN
3015.0	[m]	DC	MILLEN
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3057.0	[m]	DC	MILLEN
3066.0	[m]	DC	MILLEN
3075.0	[m]	DC	MILLEN
3085.0	[m]	DC	MILLEN
3093.0	[m]	DC	MILLEN
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3111.0	[m]	DC	MILLEN
3120.0	[m]	DC	MILLEN
3129.0	[m]	DC	MILLEN
3138.0	[m]	DC	MILLEN
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3204.0	[m]	DC	MILLEN
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3294.0	[m]	DC	MILLEN
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3321.0	[m]	DC	MILLEN
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3339.0	[m]	DC	MILLEN
3348.0	[m]	DC	MILLEN
3357.0	[m]	DC	MILLEN
3366.0	[m]	DC	MILLEN
3375.0	[m]	DC	MILLEN
3384.0	[m]	DC	MILLEN
3393.0	[m]	DC	MILLEN
3402.0	[m]	DC	MILLEN
3411.0	[m]	DC	MILLEN
3420.0	[m]	DC	MILLEN
3429.0	[m]	DC	MILLEN
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3456.0	[m]	DC	MILLEN
3465.0	[m]	DC	MILLEN
3474.0	[m]	DC	MILLEN
3483.0	[m]	DC	MILLEN
3492.0	[m]	DC	MILLEN
3501.0	[m]	DC	MILLEN
3510.0	[m]	DC	MILLEN
3519.0	[m]	DC	MILLEN
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3537.0	[m]	DC	MILLEN
3546.0	[m]	DC	MILLEN
3555.0	[m]	DC	MILLEN
3564.0	[m]	DC	MILLEN
3573.0	[m]	DC	MILLEN
3582.0	[m]	DC	MILLEN
3591.0	[m]	DC	MILLEN
3600.0	[m]	DC	MILLEN
3615.0	[m]	DC	MILLEN
3630.0	[m]	DC	MILLEN
3645.0	[m]	DC	MILLEN
3660.0	[m]	DC	MILLEN
3675.0	[m]	DC	MILLEN

3690.0	[m]	DC	MILLEN

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
366	NORDLAND GP
532	HORDALAND GP
607	NO FORMAL NAME
622	NO FORMAL NAME
627	ROGALAND GP
627	BALDER FM
669	NO FORMAL NAME
730	SELE FM
852	LISTA FM
1335	VÅLE FM
1355	SHETLAND GP
1355	JORSALFARE FM
1411	KYRRE FM
2195	NO FORMAL NAME
2211	KYRRE FM
2375	TRYGGVASON FM
2620	BLODØKS FM
2657	SVARTE FM
2946	CROMER KNOLL GP
2946	RØDBY FM
3015	AGAT FM
3391	ÅSGARD FM
3500	NO FORMAL NAME

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DSI PEX	1659	3008
DSI PEX	3009	3620
MDT	2101	2208
MDT	3040	3580
MWD LWD - ARCVRES8 POWERPULSE	1659	3008

MWD LWD - ARCVRS9 POWERPULSE	429	1659
MWD LWD - GVR6 ARCVRS6 TELESCOPE	3012	3620
MWD LWD - TELE & ACOSCOPE VSONIC	3620	3700
VSP	670	3500

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
CONDUCTOR	30	426.0	36	426.0	0.00	LOT
SURF.COND.	20	581.0	26	582.0	1.57	LOT
INTERM.	13 3/8	1654.0	17 1/2	1662.0	1.51	LOT
INTERM.	9 5/8	3007.0	12 1/4	3008.0	1.50	LOT
OPEN HOLE		3700.0	8 1/2	3700.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
580	1.17	21.0		Spud Mud	
610	1.14	20.0		HPWBM	
625	1.15	17.0		HPWBM	
655	1.12	20.0		HPWBM	
801	1.15	28.0		HPWBM	
919	1.14	31.0		HPWBM	
1360	1.15	25.0		HPWBM	
1659	1.14	32.0		HPWBM	
1810	1.24	39.0		OBM-Standard	
2970	1.20	21.0		OBM-Standard	
2977	1.28	20.0		OBM-Standard	
3355	1.28	20.0		OBM-Standard	
3620	1.28	22.0		OBM-Standard	
3693	1.36	24.0		OBM-Standard	
3700	1.27	21.0		OBM-Standard	